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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/672,879	09/29/2000	Minoru Handa	0757-0225P-SP	9477
7590 04/02/2004			EXAMINER	
Birch Stewart Kolasch & Birch LLP P O Box 747 Falls Church, VA 22040-0747			LOBO, IAN J	
			ART UNIT	PAPER NUMBER
,			3662	

DATE MAILED: 04/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/672,879	HANDA ET AL.				
Office Action Summary	Examiner	Art Unit				
	lan J. Lobo	3662				
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3' after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a ation. 1ys, a reply within the statutory minimum of thir ry period will apply and will expire SIX (6) MOI by statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 05 January 2004.						
2a) This action is FINAL . 2b)	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1-4 and 6-34 is/are pending in 4a) Of the above claim(s) 12-18 and 21-5) ⊠ Claim(s) 1-4,6-11,19 and 26-33 is/are a 6) ⊠ Claim(s) 20 and 34 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	<u>25</u> is/are withdrawn from conside llowed.	eration.				
Application Papers						
9) ☐ The specification is objected to by the Ex	kaminer.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by		• •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for a a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	numents have been received. Euments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Notice of Draftsperson's Patent Drawing Review (PTO-53) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date	948) Paper No(s 9/SB/08) 5) Notice of II 6) Other:	s)/Mail Date nformal Patent Application (PTO-152) 				

Application/Control Number: 09/672,879

Art Unit: 3662

DETAILED ACTION

Page 2

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 5, 2004 has been entered.

Allowable Subject Matter

2. Claims 1-4, 6-11, 19 and 26-33 are allowed.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 20 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over the patent to Jarman et al ('184).
- Col. 4, lines 3-12 and Figures 1 and 3a of the Jarman et al patent disclose a receiving beam forming apparatus that repeatedly samples echo signals. Specifically, it

is stated that the "fixed beam... can therefore be formed by sampling at the scan frequency, the detected received sonar signals, during a sampling period which is

synchronized with the scanning frequency". Further, on col. 2, lines 11-27, it is stated

Page 3

that "successive scans relate to progressively increasing ranges ...".

The obviousness rejection is based upon a reading, by one of ordinary skill in the art, of specific structure from the Jarman et al patent upon the limitations in claims 20 and 34. Specifically, the above noted "successive scans" would functionally relate to the claimed limitation of "multiple scanning cycles", and the "sampling period being synchronized with the scanning frequency" would functionally relate to the claimed "scanning cycle being dependent upon the scanning frequency".

Response to Arguments

- 5. Applicant's arguments filed January 5, 2004 have been fully considered but they are not persuasive. Specifically, as shown above, the broad language of claims 20 and 34 may be found from functionally similar language in the Jarman et al patent.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ian J. Lobo whose telephone number is (703) 306-4161. The examiner can normally be reached on Monday Friday, 6:30 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza can be reached on (703) 306-4171. The fax phone

Application/Control Number: 09/672,879

Art Unit: 3662

number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

lan J. Lobo

Primary Examiner Art Unit 3662 Page 4